CLAIMS

What is claimed is:

- 1. A method of promoting a wild-type activity in a mutant form of a human 5 protein of the p53 family, wherein one or more functional activities of said protein are at least partially impaired by the inability of said protein to maintain a functional conformation under physiological conditions, said method comprising the steps of:
- (a) contacting said mutant protein with an organic non-peptide compound that is capable of binding to one or more domains in said mutant protein under physiological
 conditions and stabilizing a functional conformation therein, and
 - (b) permitting said stabilized protein to interact with one or more macromolecules that participate in said wild type activity.
- 2. The method of claim'l wherein said protein is selected from the group consisting of p53, p63, and p73.
 - 3. The method of claim 2 wherein said protein is p53.
- 4. The method of claim 1, wherein said organic non-peptide compound is selected from the group consisting of:

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wherein, for group I,

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$$R^7$$
 R^8
 R^8
 R^6

 R^{5} is $-N-R^{18}R^{19}$, where

R¹⁸ is H, (C₁-C₆)alkyl, or phenyl, and

 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl,

-CON $R^{18}(CH_2)_pNR^{20}R^{21}$, - $(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$, or

25 $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R²² is hydroxy or (C_1-C_6) alkyl, and

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_6-C_{10}) aryl, (C_5-C_9) heteroaryl, (C_1-C_6) alkyl (C_6-C_{12}) aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1-C_6) alkyl, (C_1-C_6) alkyl, (C_1-C_6) alkyl (C_3-C_{10}) heterocycloalkyl, or (C_1-C_6) alkyl (C_6-C_{10}) aryl; or
 - (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;

 R^6 is

- (a) (C_1-C_6) alkyl or (C_2-C_8) alkenyl, each optionally substituted by one or more phenyl groups, or
- (b) phenyl substituted by halo, (C_1-C_6) alkoxy; and R^7 and R^8 are the same, or different, and are selected from H. nitro, (C_1-C_6) alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group II.

 $R^9 \text{ is } (C_1\text{-}C_6) \text{alkyl, } (C_3\text{-}C_{10}) \text{cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, } (C_3\text{-}C_8) \text{cycloheteroalkyl, -CON} \\ 15 R^{18} (CH_2)_p NR^{20}R^{21}, -(CH_2)_p -(CHR^{22})_m -(CH_2)_n -NR^{20}R^{21}, \text{ or } -(CH_2)_p -(CHR^{22})_m -(CH_2)_n -NR^{20}R^{21}, \text{ wherein p is 0-5, n is 0-5, R}^{22} \text{ is hydroxy or } (C_1\text{-}C_6) \text{alkyl, and}$

R²⁰ and R²¹ are each independently selected from H, (C₁-C₁₂)alkyl, (C₃-C₁₂)cycloalkyl, (C₃-C₁₀)heterocycloalkyl, (C₆-C₁₀)aryl, (C₅-C₉)heteroaryl, (C₁-C₆)alkyl(C₆-C₁₂)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkyl(C₃-C₁₀)heterocycloalkyl, (C₁-C₆)alkyl(C₅-C₉)heteroaryl, or (C₁-C₆)alkyl(C₆-C₁₀)aryl; wherein, for group III,

$$R^{11}$$

$$R^{10}$$

$$R^{12}$$

R¹⁰ is -N-R¹⁸R¹⁹, where

R¹⁸ is H, (C₁-C₆)alkyl, or phenyl, and

R¹⁹ is H, (C₁-C₆)alkyl, (C₃-C₁₀)cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C₃-C₈)cycloheteroalkyl,

-CON R¹⁸(CH₂)_pNR²⁰R²¹, -(CH₂)_p-(CHR²²)_m-(CH₂)_n-NR²⁰R²¹, or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R^{22} is hydroxy or $(C_1$ - C_6)alkyl, and

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_6-C_{10}) aryl. (C_5-C_9) heteroaryl, (C_1-C_6) alkyl (C_6-C_{12}) aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1-C_6) alkyl, (C_1-C_6) alkyl (C_3-C_{10}) heterocycloalkyl, (C_1-C_6) alkyl (C_5-C_9) heteroaryl, or (C_1-C_6) alkyl (C_6-C_{10}) aryl; or
- (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R^{11} and R^{12} are the same, or different, and are selected from H, nitro, (C_1-C_6) alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group IV,

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 R^{13} is $-N-R^{18}R^{19}$, where

R¹⁸ is H, (C₁-C₆)alkyl, or phenyl, and

 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl,

-CON $R^{18}(CH_2)_pNR^{20}R^{21}$, -(CH₂) $_p$ -(CHR²²) $_m$ -(CH₂) $_n$ -NR²⁰R²¹, or

 $-(CH_2)_p$ - $(CH_2)_n$ - $(CH_2)_n$ - $NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R²² is hydroxy or $(C_1$ - C_6)alkyl, and

 R^{20} and R^{21} are each, independently selected from:

- (a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_1-C_6) alkyl (C_5-C_9) heteroaryl, (C_5-C_9) heteroaryl, (C_6-C_{10}) aryl, and (C_1-C_6) alkyl (C_6-C_{10}) aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1-C_6) alkyl, (C_1-C_6) alkoxy, (C_1-C_6) alkyl (C_3-C_{10}) heterocycloalkyl, (C_1-C_6) alkyl (C_5-C_9) heteroaryl and (C_1-C_6) alkyl (C_6-C_{10}) aryl; or
- (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and

 R^{14} and R^{15} are the same, or different, and are selected from H, nitro, (C_1-C_6) alkoxy, or halogen selected from fluoro, chloro, and bromo; and wherein, for group V,

5 R¹⁶

10 A is carbon or nitrogen;

 R^{16} is $-N-R^{18}R^{19}$, where

 R^{18} is H, (C_1-C_6) alkyl, or phenyl, and

 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl,

 $\begin{array}{ll} 15 & -CON\ R^{18}(CH_2)_pNR^{20}R^{21},\ -(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21},\ or \\ & -(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}\ ,\ wherein\ p\ is\ 0\text{--}5,\ m\ is\ 0\text{--}5,\ n\ is\ 0\text{--}5,\ R^{22}\ is\ hydroxy\ or\ (C_1\text{--}C_6)alkyl,\ and \end{array}$

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C₁-C₁₂)alkyl, (C₃-C₁₂)cycloalkyl, (C₃-C₁₀)heterocycloalkyl, (C₆-C₁₀)aryl, (C₅-C₉)heteroaryl, (C₁-C₆)alkyl(C₆-C₁₀)aryl, and (C₁-C₆)alkyl(C₅-C₉)heteroaryl, or wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl. (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkyl(C₃-C₁₀)heterocycloalkyl, (C₁-C₆)alkyl(C₅-C₉)heteroaryl, or (C₁-C₆)alkyl(C₆-C₁₀)aryl; or
 - (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine; and

 R^{17} selected from H, nitro, (C_1-C_6) alkoxy, or halogen selected from fluoro, chloro, and bromo.

- 5. The method of Claim 1 wherein said organic non-peptide compound binds to the DNA binding domain, residues 94 to 312, of human p53 protein.
 - 6. The method of claim 5 wherein the DNA binding domain of said p53 protein comprises a missense mutation at an amino acid position selected from the group consisting of residues 143, 173, 175, 241 and 249.

- 7. The method of claim 1 wherein steps (a) and (b) are performed simultaneously.
 - The method of claim 1 wherein steps (a) and (b) are performed sequentially. 8.

- A method of treating a human subject for a disease state associated with 9. possession of a mutant protein of the p53 family having one or more diminished wild-type activities, comprising the steps of:
- administering to said subject an organic non-peptide compound that is 10 capable of binding to one or more domains in said mutant protein under physiological conditions, and stabilizing a functional conformation therein, and
 - permitting said stabilized protein in said patient to interact with one or more macromolecules that participate in said wild-type activity.
- 15 The method of claim 9 wherein said protein is selected from the group 10. consisting of p53, p63 and p73.
 - The method of claim $1\overline{0}$ wherein said protein is p53. 11.

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- The method of Claim 10 wherein said organic non-peptide compound binds 12. to the DNA binding domain, residues 94 to 312, of human p53 protein.
- The method of claim 12 wherein the DNA binding domain of said p53 13. protein comprises a missense mutation at an amino acid position selected from the group 25 consisting of residues 143, 173, 175, 241 and 249.
 - The method of claim 9 wherein steps (a) and (b) are performed 14. simultaneously.

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- The method of claim 9 wherein steps (a) and (b) are performed sequentially. 15.
- The method of claim 10 wherein said disease state is cancer. 16.
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- A method of treating a human subject for cancer comprising the steps of: 17.

- (a) administering to said subject an organic non-peptide compound that is capable of binding to one or more domains of a human protein of the p53 family under physiological conditions, and stabilizing a functional conformation therein, and
- (b) permitting said stabilized protein to interact with one or more
 macromolecules that participate in a wild-type activity of said protein.
 - 18. The method of claim 17 wherein said protein is selected from the group consisting of p53, p63, and p73.
- 10 19. The method of claim 17 wherein said protein is p53.
 - 20. The method of claim 17, wherein said organic non-peptide compound is selected from the group consisting of:

wherein, for group I,

$$R^{7} \longrightarrow R^{5}$$

 R^5 is $-N-R^{18}R^{19}$, where R^{18} is H, (C_1-C_6) alkyl, or phenyl, and

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 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl.

-CON $R^{18}(CH_2)_pNR^{20}R^{21}$, $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R^{22} is hydroxy or $(C_1$ - C_6)alkyl, and

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_6-C_{10}) aryl. (C_5-C_9) heteroaryl, (C_1-C_6) alkyl (C_6-C_{12}) aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1-C_6) alkyl, (C_1-C_6) alkoxy. (C_1-C_6) alkoxy.
- C₆)alkyl(C₃-C₁₀)heterocycloalkyl, or (C₁-C₆)alkyl(C₆-C₁₀)aryl; or
 (b) NR²⁰R²¹ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;
 R⁶ is
 - (a) (C_1-C_6) alkyl or (C_2-C_8) alkenyl, each optionally substituted by one or more phenyl groups, or
 - (b) phenyl substituted by halo, (C₁-C₆)alkoxy; and

R⁷ and R⁸ are the same, or different, and are selected from H, nitro, (C₁-C₆)alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group II,

R⁹ N

R⁹ is (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl, -CON $R^{18}(CH_2)_pNR^{20}R^{21}$, $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, or $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R²² is hydroxy or (C_1-C_6) alkyl, and

 $R^{20} \ and \ R^{21} \ are \ each \ independently \ selected \ from \ H, (C_1-C_{12})alkyl, (C_3-C_{12})alkyl, (C_3-C_{12})alkyl, (C_3-C_{12})aryl, (C_5-C_9)heteroaryl, (C_1-C_6)alkyl(C_6-C_{12})aryl, \ wherein \ said \ groups \ are \ optionally \ substituted \ by \ one \ or \ more \ hydroxy, \ halo, \ amino, \ trifluoromethyl, (C_1-C_6)alkyl, (C_1-C_6)alkyl, (C_1-C_6)alkyl(C_3-C_{10})heterocycloalkyl, (C_1-C_6)alkyl(C_5-C_9)heteroaryl, \ or \ (C_1-C_6)alkyl(C_6-C_{10})aryl;$

wherein, for group III,

 R^{10} is $-N-R^{18}R^{19}$, where

 R^{18} is H, (C_1-C_6) alkyl, or phenyl, and

 R^{19} is H. (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl.

10 -CON R¹⁸(CH₂)_pNR²⁰R²¹, -(CH₂)_p-(CHR²²)_m-(CH₂)_n-NR²⁰R²¹, or -(CH₂)_p-(CHR²²)_m-(CH₂)_n-NR²⁰R²¹, wherein p is 0-5, m is 0-5, n is 0-5, R²² is hydroxy or (C₁-C₆)alkyl, and

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C₁-C₁₂)alkyl, (C₃-C₁₂)cycloalkyl, (C₃-C₁₆)heterocycloalkyl, (C₆-C₁₀)aryl, (C₅-C₉)heteroaryl, (C₁-C₆)alkyl(C₆-C₁₂)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₁-C₆)alkyl(C₃-C₁₀)heterocycloalkyl, (C₁-C₆)alkyl(C₅-C₉)heteroaryl, or (C₁-C₆)alkyl(C₆-C₁₀)aryl; or
- (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R^{11} and R^{12} are the same, or different, and are selected from H, nitro, (C_1-C_6) alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group IV,

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$$R^{13}$$
 is $-N-R^{18}R^{19}$, where

 R^{18} is H, (C_1-C_6) alkyl, or phenyl, and

 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl, $-CON\ R^{18}(CH_2)_nNR^{20}R^{21}$, $-(CH_2)_n-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R²² is hydroxy or $(C_1$ - C_6)alkyl, and

R²⁰ and R²¹ are each, independently selected from:

- (a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_1-C_{12})
- 5 C_6)alkyl(C_5 - C_9)heteroaryl, (C_5 - C_9)heteroaryl, (C_6 - C_{10})aryl, and (C_1 - C_6)alkyl(C_6 - C_{10})aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1 - C_6)alkyl, (C_1 - C_6)alkoxy, (C_1 - C_6)alkyl(C_5 - C_9)heteroaryl and (C_1 - C_6)alkyl(C_6 - C_{10})aryl; or
- (b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C₁-C₆) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R^{14} and R^{15} are the same, or different, and are selected from H, nitro, (C_1-C_6) alkoxy. or halogen selected from fluoro, chloro, and bromo; and wherein, for group V.

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A is carbon or nitrogen;

 R^{16} is $-N-R^{18}R^{19}$, where

R¹⁸ is H, (C₁-C₆)alkyl, or phenyl, and

25 R^{19} is H, (C_1-C_6) alkyl, (C_3-C_{10}) cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C_3-C_8) cycloheteroalkyl, $-CON\ R^{18}(CH_2)_pNR^{20}R^{21}$, $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, or $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$, wherein p is 0-5, m is 0-5, n is 0-5, R^{22} is hydroxy or (C_1-C_6) alkyl, and

 $R^{20} \ \text{and} \ R^{21}$ are each, independently selected from:

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(a) H, (C_1-C_{12}) alkyl, (C_3-C_{12}) cycloalkyl, (C_3-C_{10}) heterocycloalkyl, (C_6-C_{10}) aryl, (C_5-C_9) heteroaryl, (C_1-C_6) alkyl (C_6-C_{10}) aryl, and (C_1-C_6) alkyl (C_5-C_9) heteroaryl, or wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C_1-C_6) alkyl, (C_1-C_6) alkoxy, (C_1-C_6) alkyl (C_3-C_{10}) heterocycloalkyl, (C_1-C_6) alkyl (C_5-C_9) heteroaryl, or (C_1-C_6) alkyl (C_6-C_{10}) aryl; or

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(b) $NR^{20}R^{21}$ taken together represent hydrogen, morpholine, or 4-(C_1 - C_6) alkylpiperizine; and

R¹⁷ selected from H, nitro, (C₁-C₆)alkoxy, or halogen selected from fluoro, chloro, and bromo.

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- 21. The method of Claim 17 wherein said organic non-peptide compound binds to the DNA binding domain, residues 94 to 312, of human p53 protein.
- The method of claim 17 wherein the protein of the p53 family targeted by said organic non-peptide compound is wild type.
 - 23. The method of claim 17 wherein the protein of the p53 family targeted by said organic non-peptide compound is a mutant encoded by an allelic variant.
- 15 24. The method of claim 1 wherein said organic non-peptide compound is selected from the group consisting of:

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(1-Benzyl-piperidin-4-yl)-(3-phenothiazin-10-yl-propyl)-amine

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 $[2\hbox{-}(4\hbox{-}Chloro\hbox{-}phenyl)\hbox{-}ethyl]\hbox{-}(3\hbox{-}phenothiazin\hbox{-}10\hbox{-}yl\hbox{-}propyl)\hbox{-}amine$

(3-Phenothiazin-10-yl-propyl)-thiochroman-4-yl-amine

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[1-Methyl-3-(2,6,6-trimethyl-cyclohex-2-enyl)-allyl]-(3-phenothiazin-10-yl-propyl)-amine

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(7-Ethoxy-1,2,3,4-tetra hydro-naphthalen-2-yl)-(3-phenothiazin-10-yl-propyl)-amine

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 $N'\hbox{-}(9-Fluoro-benzo[c] acridin-7-yl)-N, N-dimethyl-propane-1, 3-diamine$

5 N'-Acridin-9-yl-N.N-dimethyl-propane-1,3-diamine

 $2-\{4-[4-(Benzo[g]quinolin-4-ylamino)-phenyl]-piperazin-1-yl\}-ethanolin-4-ylamino)-phenyll-piperazin-1-yl\}-ethanolin-4-ylamino)-phenyll-piperazin-1-yl-pipe$

 $N^4-\{2-[2-(4-Bromo-phenyl)-vinyl]-7-chloro-quinazolin-4-yl\}-N^1, N^1-diethyl-pentane-1, 4-diamine$

N-Benzo[g]quinolin-5-yl-N'-cyclohexyl-propane-1,3-diamine

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2-[(2-Hydroxy-ethyl)-(3-{2-[2-(4-methoxy-phenyl)-vinyl]-quinazolin-4-ylamino}-propyl)-amino]-ethanol.

25. The method of claim 17 wherein said organic non-peptide compound is selected from the group consisting of:

(1-Benzyl-piperidin-4-yl)-(3-phenothiazin-10-yl-propyl)-amine

[2-(4-Chloro-phenyl)-ethyl]-(3-phenothiazin-10-yl-propyl)-amine

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(3-Phenothiazin-10-yl-propyl)-thiochroman-4-yl-amine

[1-Methyl-3-(2,6,6-trimethyl-cyclohex-2-enyl)-allyl]-(3-phenothiazin-10-yl-propyl)-amine 10

(7-Ethoxy-1,2,3,4-tetra hydro-naphthalen-2-yl)-(3-phenothiazin-10-yl-propyl)-amine

 $N'\hbox{-}(9\hbox{-}Fluoro\hbox{-}benzo[c]acridin-7-yl)-N, N-dimethyl-propane-1, 3-diamine$

N'-Acridin-9-yl-N,N-dimethyl-propane-1,3-diamine

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2-{4-[4-(Benzo[g]quinolin-4-ylamino)-phenyl]-piperazin-1-yl}-ethanol

 $N^4-\{2-[2-(4-Bromo-phenyl)-vinyl]-7-chloro-quinazolin-4-yl\}-N^1, N^1-diethyl-pentane-1, 4-diamine$

N-Benzo[g]quinolin-5-yl-N'-cyclohexyl-propane-1,3-diamine

2-[(2-Hydroxy-ethyl)-(3-{2-[2-(4-methoxy-phenyl)-vinyl]-quinazolin-4-ylamino}-propyl)-amino]-ethanol.